

ABSTRACT OF THE DISCLOSURE

A router and routing protocol redundancy are disclosed to reduce service outage or degradation for a network device and thus to increase service availability on a network due to software and hardware failures of the network device. A network device such as router includes a redundancy platform having an active controller system and a standby controller system. A routing protocol state change is received or generated by the active controller system. The received or generated routing protocol state change is replicated to the standby controller system. By replicating the routing protocol state change, the standby controller system can maintain the routing protocol sessions for the network device if a failure occurs in the active controller system. Furthermore, the routing protocol states are maintained in realtime to handle the dynamic changes created by routing protocols.